AMENDMENTS TO THE CLAIMS

•	An electrical press device with comprising:
	an electric motor (2),
	a step-up gear-(8),
	a spindle drive (66) in the form of a satellite roller
	screw, the spindle drive being formed from a thread spindle
	(14) of which is connected to the step-up gear (8) and thea
	threaded nut (16) of which is-guided in a cylindrical housing
	(22)-in a non-rotatable manner, and such that it can be axially
	displaced, and said spindle dirve is connected to a pressing tool;
	for converting a rotary motion of the electric motor (2)-into a
	linear motion of the pressing tool,
	a travel sensor (30)-for determining the distance
	traveled by the pressing tool, and
	a sensor (10) for determining the pressing force of the
	pressing tool, eharacterised in that
	wherein the thread spindle (14) is mounted in the
	housing (22) by means of a pre-loaded set of angular contact
	ball bearings-(12), thea first set of angular contact ball
	bearing(s) (46) of which is (are) suitable for supporting traction
	forces and thea second set of angular contact ball bearing(s)
	(48) of which is (are) suitable for supporting pressing forces,
	the-inner rings of the angular contact ball bearings being
	contiguously clamped by a lock nut (52)-against a shaft
	shoulder (54)-of the thread spindle-(14), and the-outer rings of
	the angular contact ball bearing (46, 48) being contiguously
	clamped against a housing shoulder (58)-by a housing nut-(56),
	so that substantially equally great traction or pressing forces
	can be supported without any axial play.

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2. The press device as claimed in claim 1, characterised in that wherein the set of angular contact ball bearings (12) has two first (46) and two second angular contact ball bearing (48).

- 3. The press device as claimed in either of claims 1 or 2, eharacterised in that wherein the step-up gear (8) is designed as a multi-stage transmission.
- 4. The press device as claimed in any of the preceding claims 1, characterised in that wherein the step-up gear (8) has a transmission ratio of, for example, i=5.
- 5. The press device as claimed in any of the preceding claim_1s, eharacterised in that wherein the electric motor (2) is controlled electrically and has an angle encoder (30) on thea motor shaft (4), a means (32) being present to determine the path traveled by the pressing tool by reference to the angle signals of the angle encoder (30), the transmission ratio of the step-up gear (8) and the thread pitch of the spindle drive (66).
- 6. The press device as claimed in any of the preceding-claim_ls, eharacterised in that wherein a torque sensor (10) is disposed between an output shaft (36) of the step-up gear (8) and the thread spindle (14).
- 7. The press device as claimed in claim 6, characterised in that wherein the torque sensor (10) has a transmitter for transmitting measured values contact-free.
- 8. The press device as claimed in either of claims 6 or 7,

 characterised in that wherein the torque sensor (10) is positioned

 such that it is easily accessible and exchangeable in order for it

 to be for adapteding to different pressing forces.

9. The press device as claimed in any of claims 6 to 8, eharacterised in that wherein a closable opening is provided in the housing (38), offering access to the torque sensor (10).

- 10. The press device as claimed in any of the preceding claim 5s, eharacterised in that there is wherein a motor brake (6) is disposed on the motor shaft (4), which is applied in the absence of current and is released when current is carried.
- 11. The press device as claimed in any of the preceding claim is, eharacterised in that wherein a sprung stop (76) is provided between the threaded nut (16) and the housing (22) for determining the zero position of the travel measuring device.
- 12. The press device as claimed in claim 11, characterised in that wherein the stop is designed as a sprung ring (76) on the threaded nut-(16).
- 13. The press device as claimed in any of the preceding claim 1s, eharacterised in that wherein the thread spindle (14) has a multiple-start, e.g. five start, thread.
- 14. The press device as claimed in any of the preceding claim is, eharacterised in that wherien the threaded nut (16) is retained in an axially stepped support sleeve (18), which is guided in the housing (22) in a non-rotatable manner, and such that it can be axially displaced.
- 15. The press device as claimed in claim 14, characterised in that wherein the support sleeve (18) is connected to, or forms, an inner sleeve of an axial guidance system with recirculating ball bearings (20), and an the outer sleeve (21) of which is connected to the housing (22) in a non-rotatable manner.

16. The press device as claimed in either of claims 14-or-15, characterised in that wherein the support sleeve (18) has a cylindrical supporting part (18a) with a relatively large diameter and a sleeve (18b) with a smaller diameter bolted to it and forming thea pressing ram.

- 17. The press device as claimed in any of the preceding claim 1s, eharacterised in that wherein the housing (22) has an outer cylindrical clamping surface (24) for fixing the press device in a freely selectable axial clamping position.
- 18. The press device as claimed in claim 17, eharacterised in that wherein a double-cone set of clamps (28)-is disposed on the clamping surface (24).
- 19. The press device as claimed in claim 23, wherein the thread spindle has a five-start thread.

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